

FIG. 1A

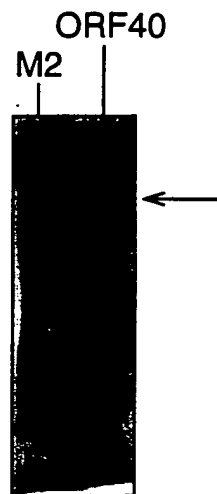
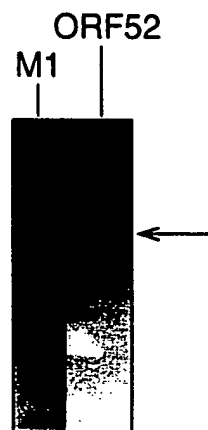


FIG. 1B



FIG. 4A



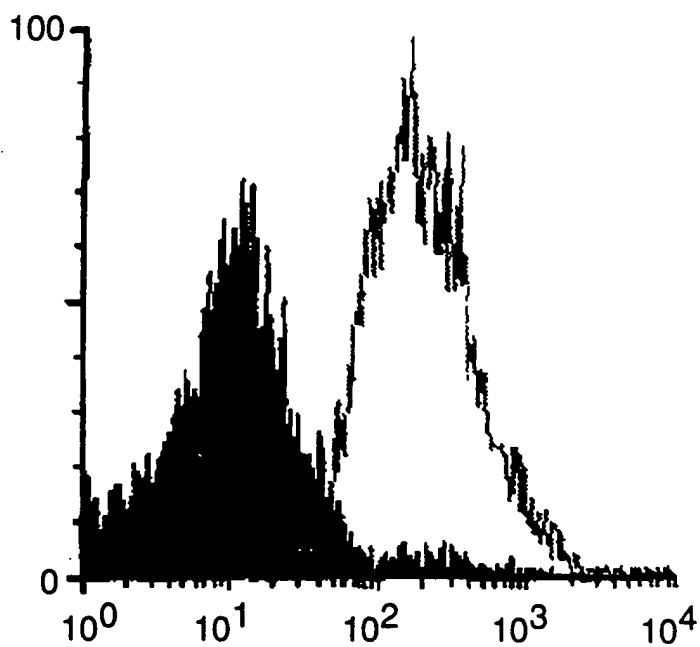


FIG. 1C

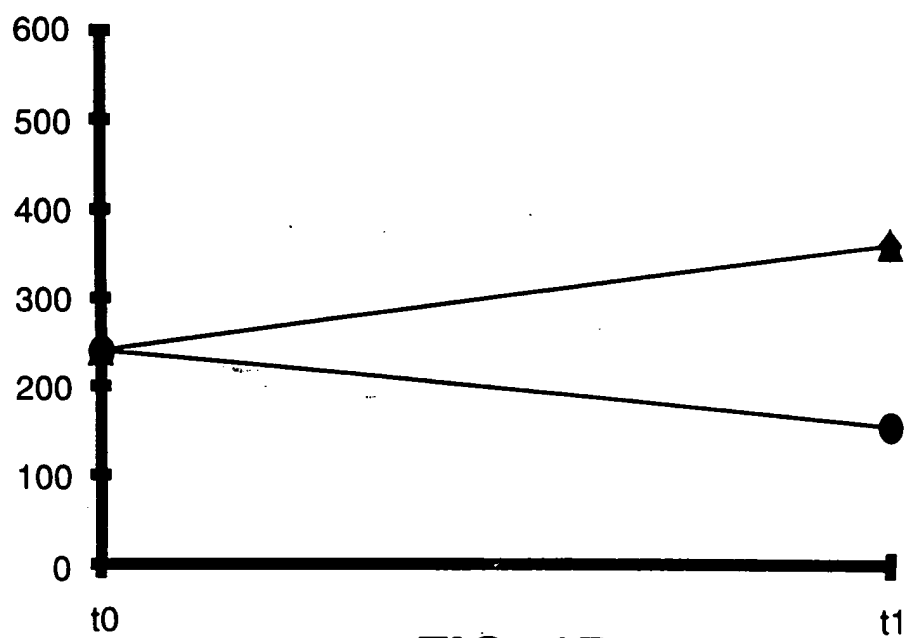


FIG. 1D

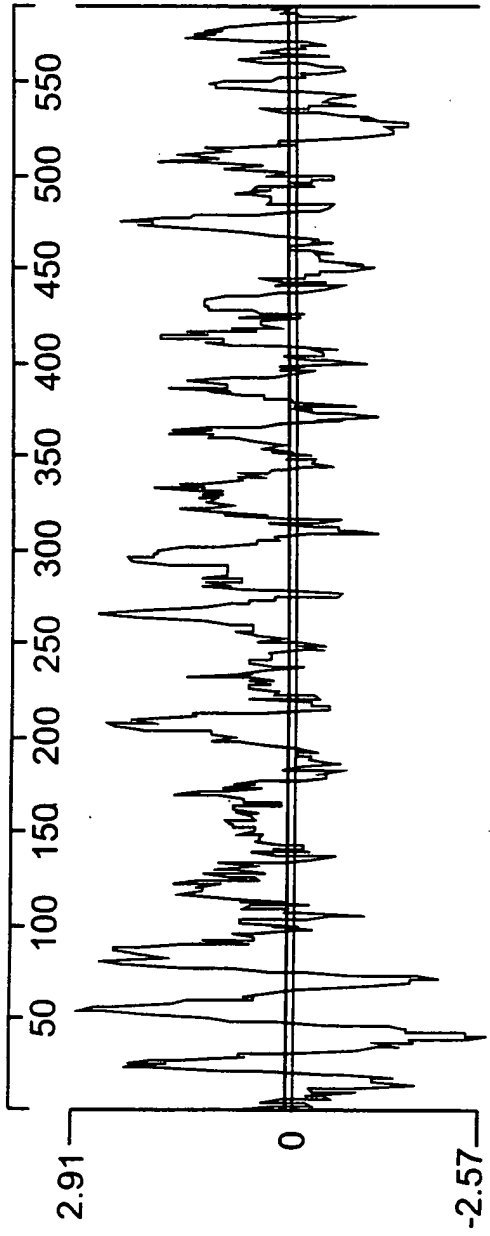


FIG. 1E

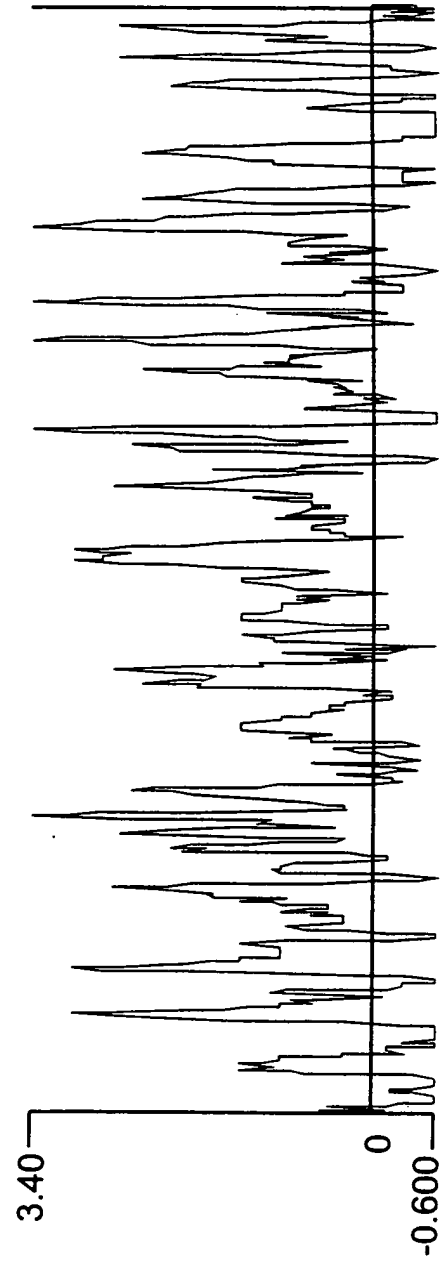


FIG. 2A

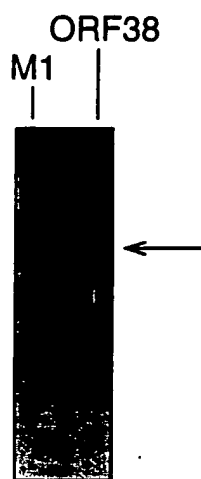


FIG. 2B

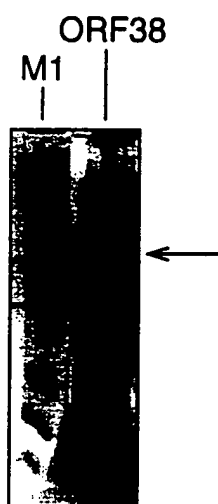


FIG. 2C

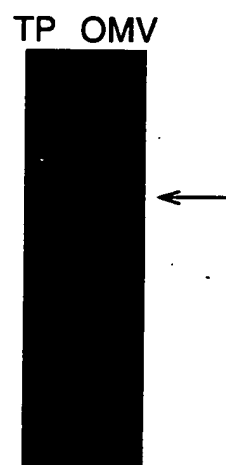
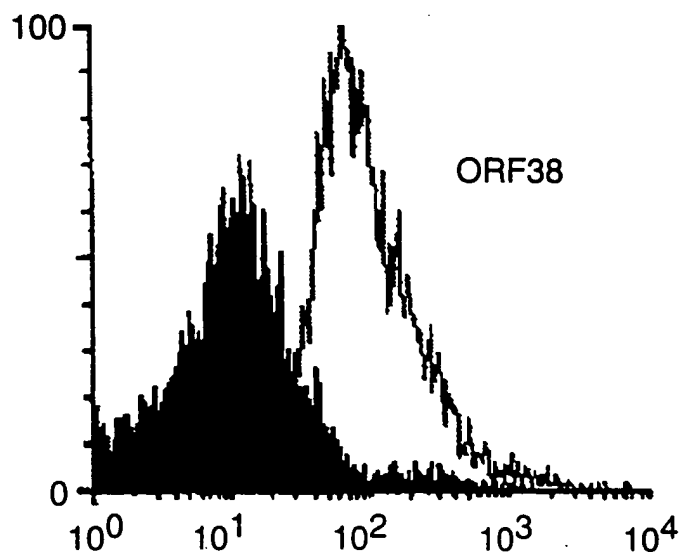


FIG. 2D



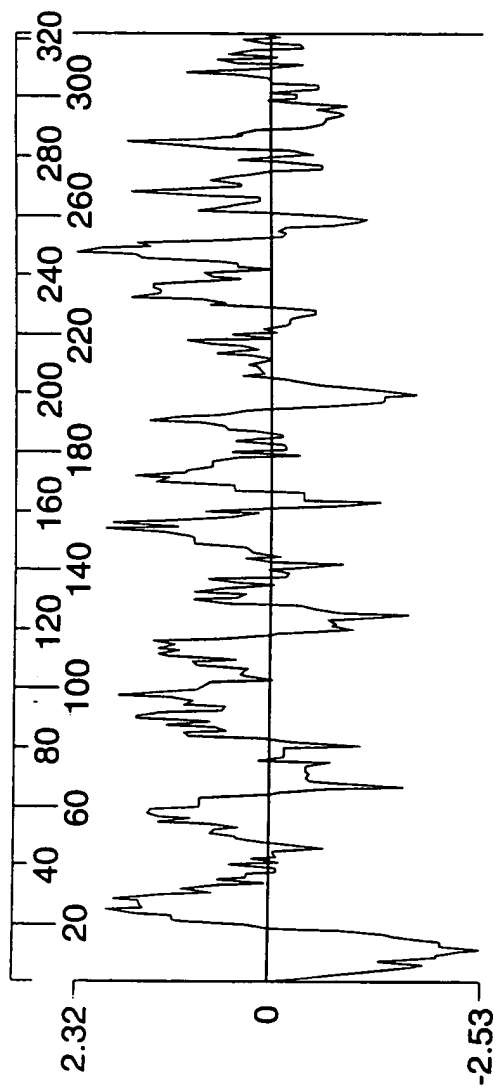


FIG. 2E

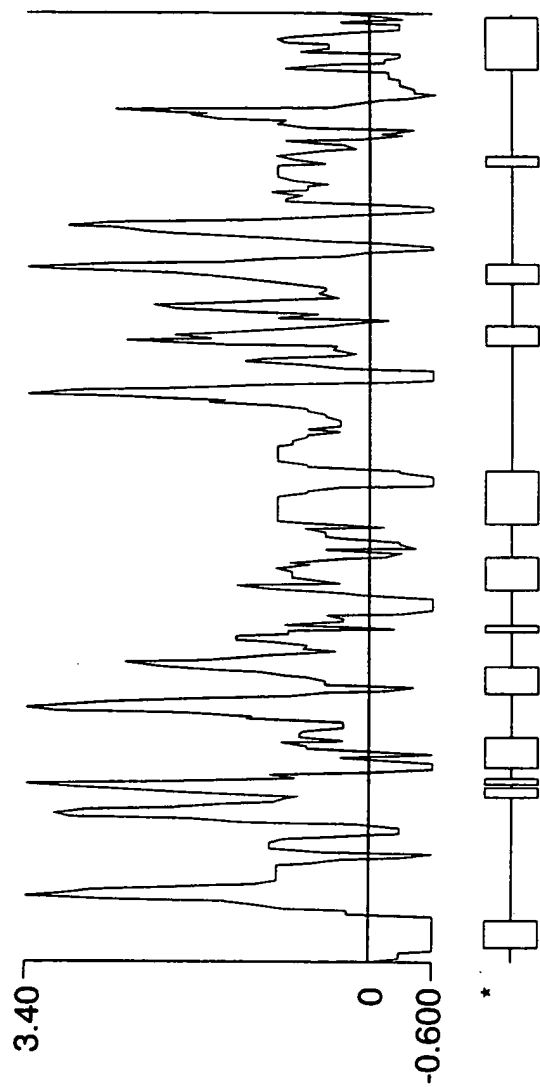


FIG. 3A



FIG. 3B

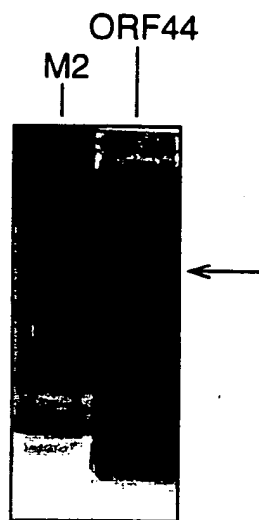
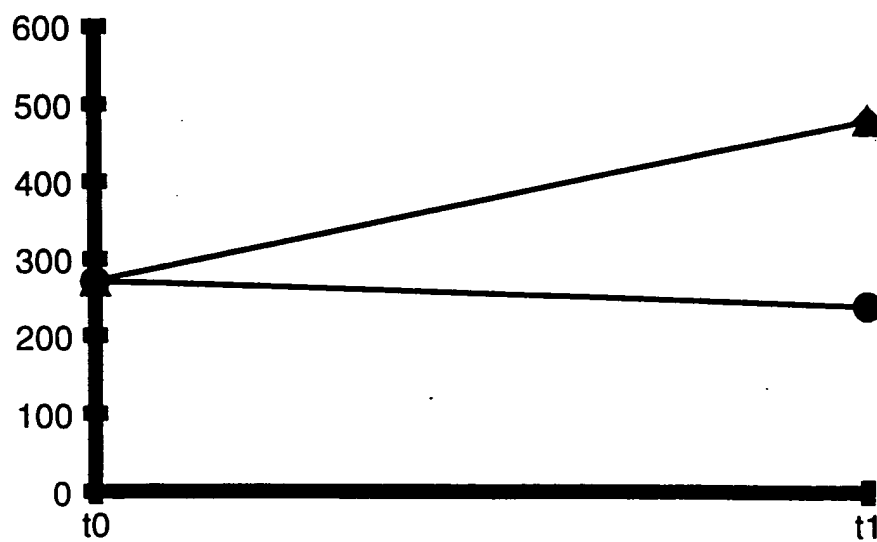


FIG. 3C



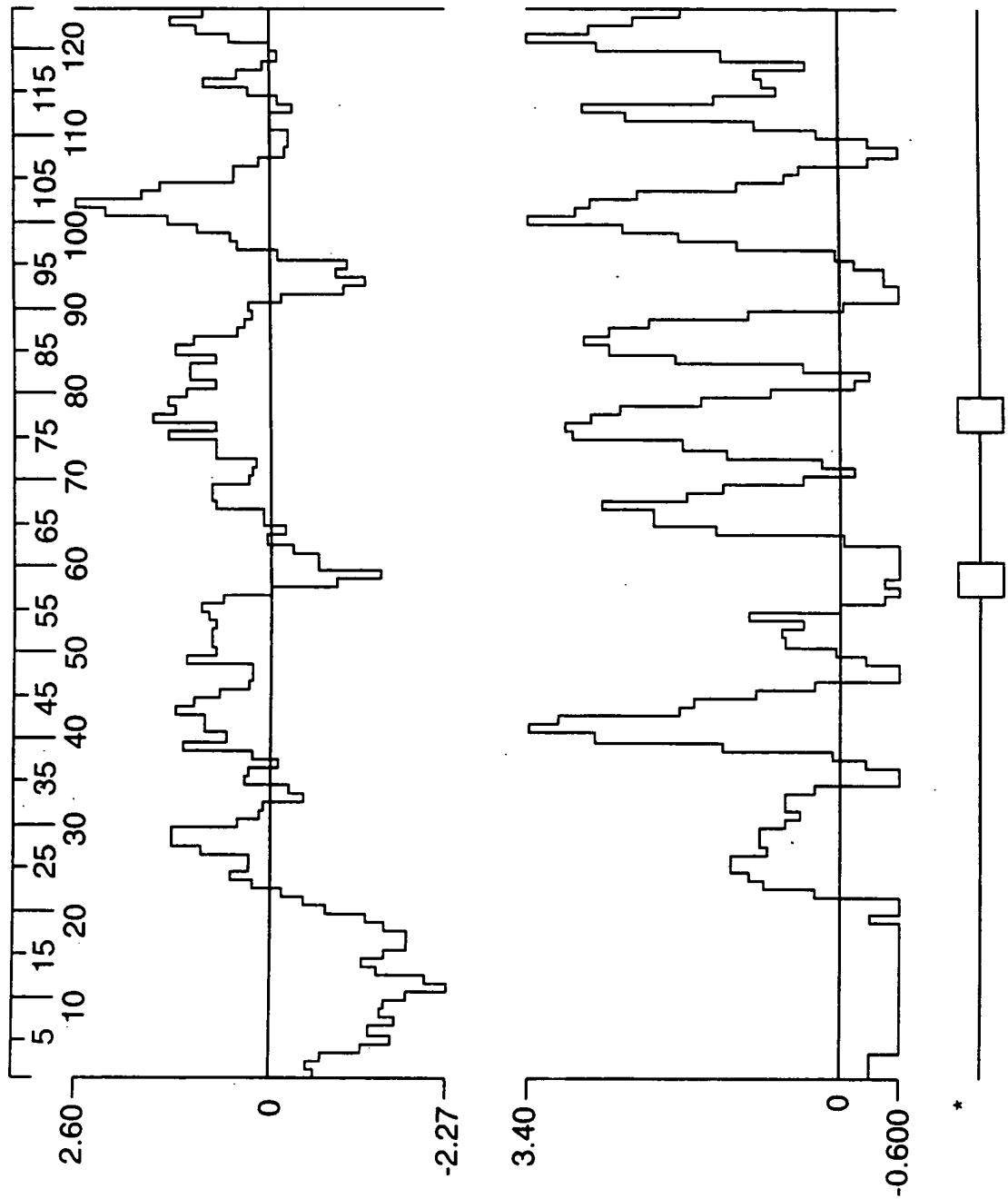


FIG. 3D

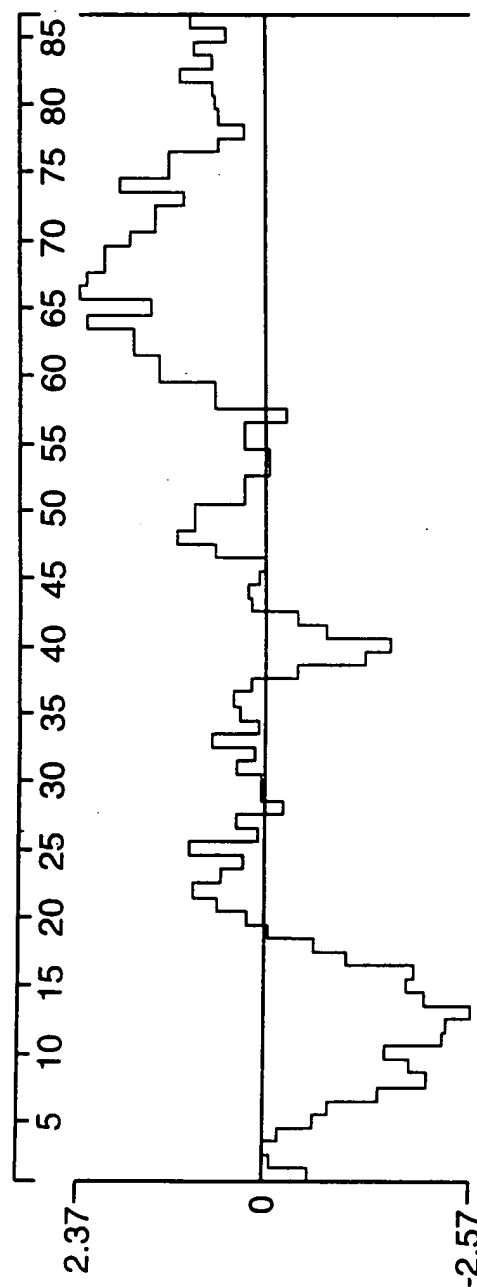


FIG. 4B

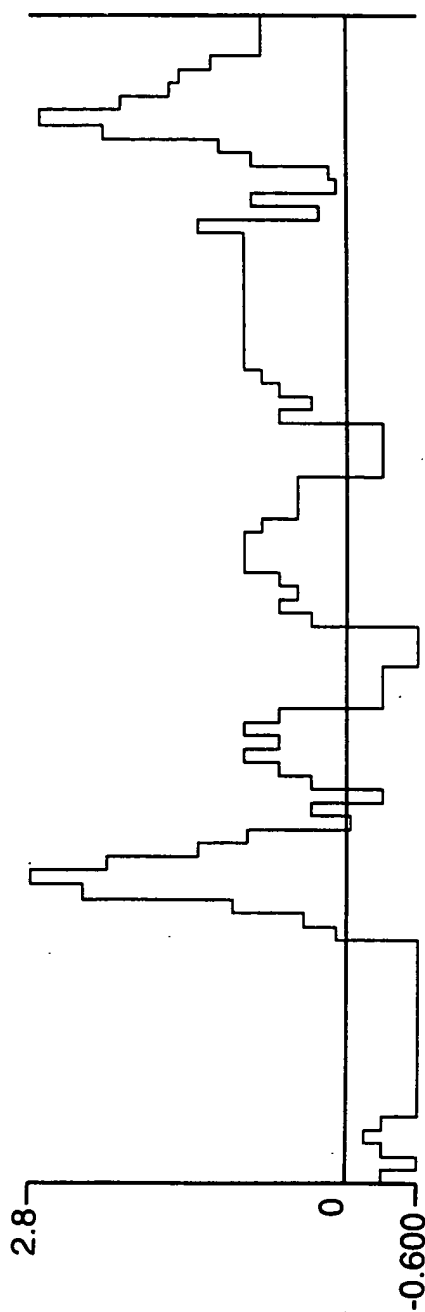




FIG. 6

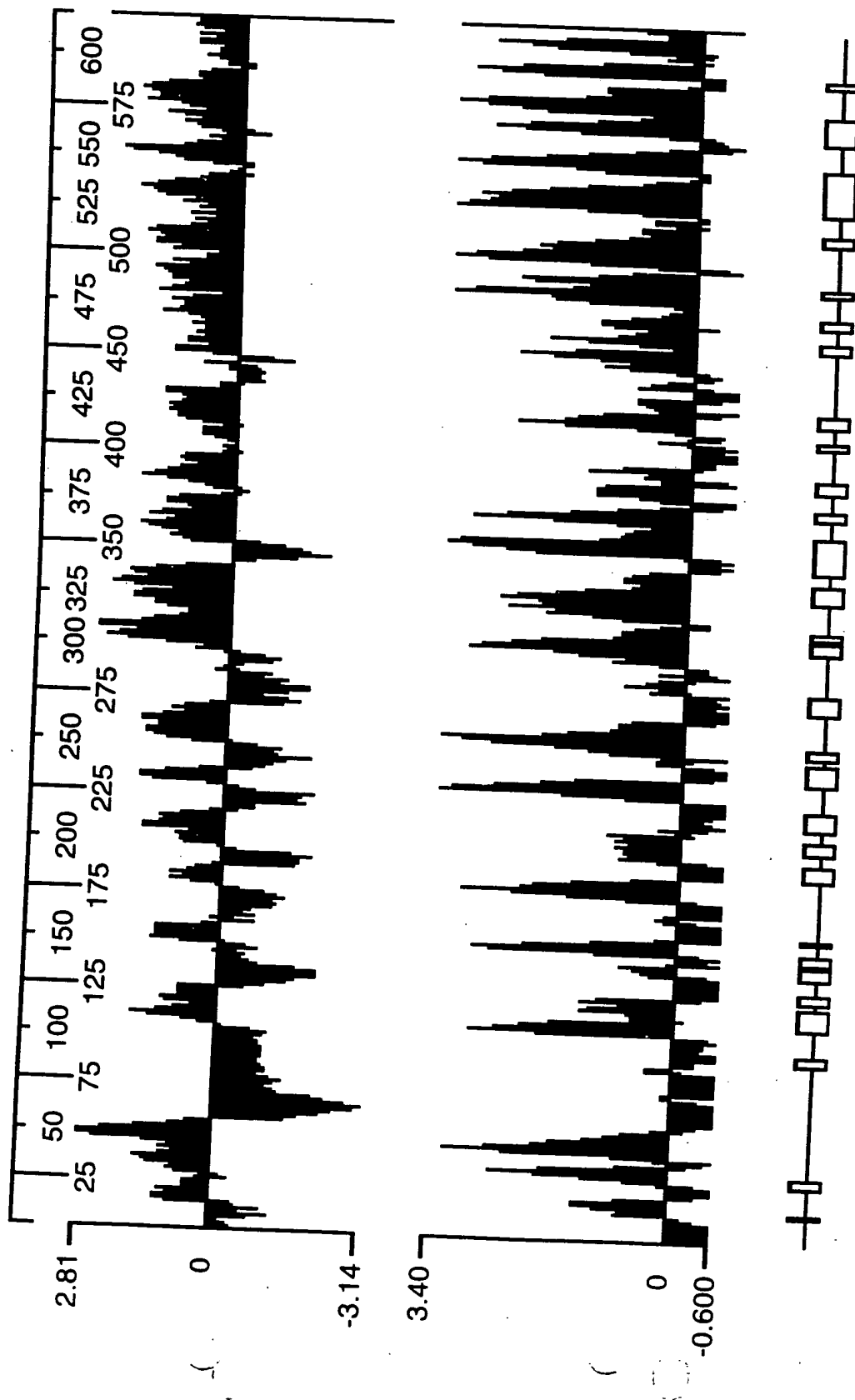
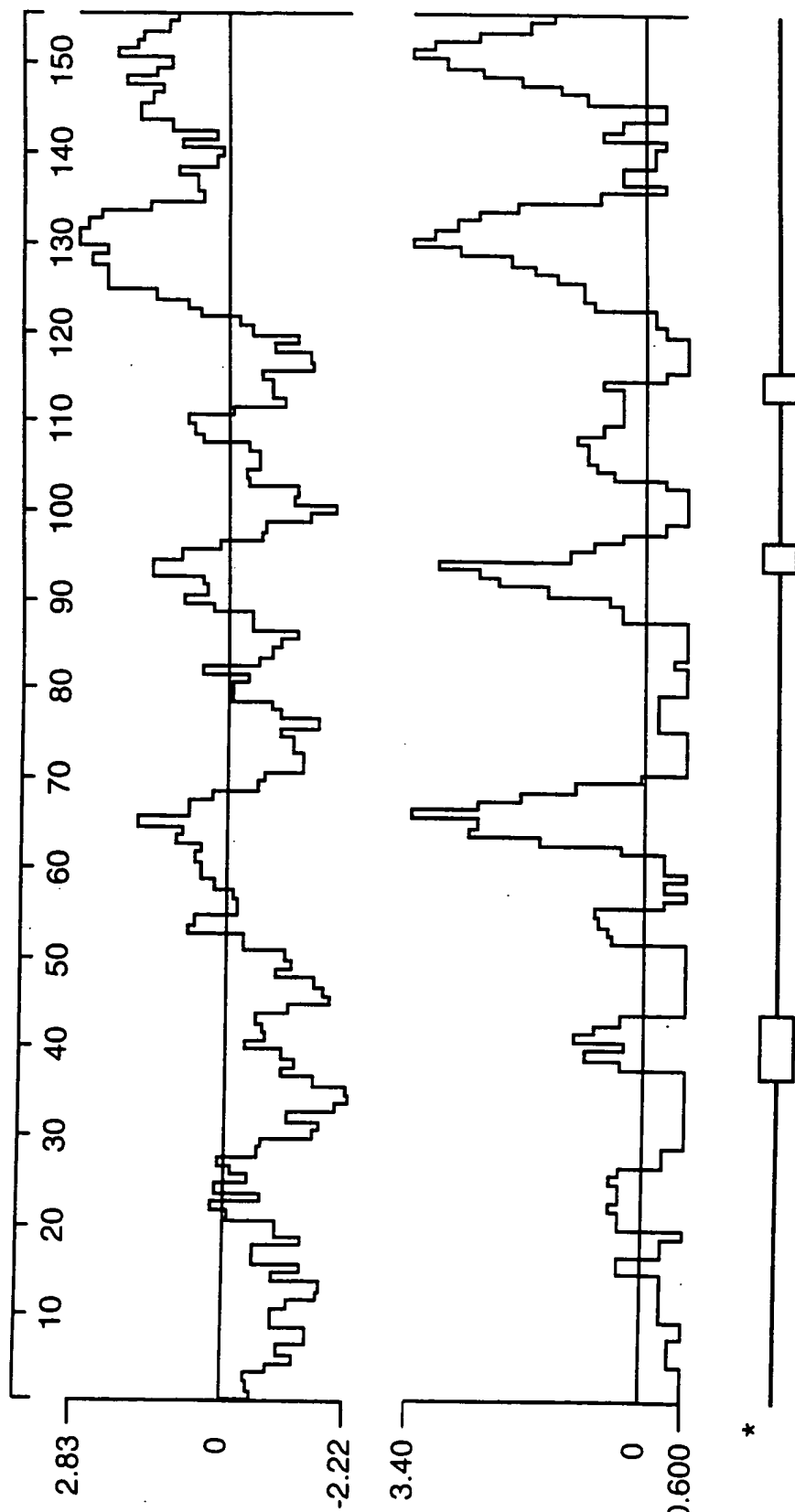


FIG. 7



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zn07_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQASANNEEQEEDL
zn20_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQASANNEEQEEDL
zn21_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQASANNEEQEEDL
zn06_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQASANNEEQEEDL
zn19_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQASANNEEQEEDL
zn03_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQASTT..D.DDDL
zn18_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQASTT..D.DDDL
zn11_ass    1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQASTT..D.DDDL
zn02_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANAT..D.DDDL
zn04_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANAT..D.DDDL
zn16_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANAT..D.DDDL
zn14_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANAT..DEDEEE
z2491      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANATDEDEEE
zn10_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANATDEDEEE
zn22_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANATDEDEEE
zn23_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANATDEDEEE
zn28_ass    1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANATDEDEEE
zn24_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLSATVQANATDTDEEE
zn25_ass    1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLSATVQANATDTDEEE
zn08_1      1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLFATVQANATDTDEEE
zn29_ass    1 MNKIYRIIWNSALNAWVVSELTRNHTKRASATVKTAVLATLLSATVQANATDEEDNEE

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zn07_1      61 YLLPVQRVAVLIVNSDKEGGEKEKVEENSDWAYNEKGVLTRETLKAGDNLKIKQ
zn20_1      61 YLLPVQRVAVLIVNSDKEGGEKEKVEENSDWAYNEKGVLTRETLKAGDNLKIKQ
zn21_1      61 YLLPVQRVAVLIVNSDKEGGEKEKVEENSDWAYNEKGVLTRETLKAGDNLKIKQ
zn06_1      61 YLLPVQRVAVLIVNSDKEGGEKEKVEENSDWAYNEKGVLTRETLKAGDNLKIKQ
zn19_1      61 YLLPVQRVAVLIVNSDKEGGEKEKVEENSDWAYNEKGVLTRETLKAGDNLKIKQ
zn03_1      58 YLLPVQRAPVLSFHADSEGGEKE.VTEDSNWGYDKKGVLTGTTLKAGDNLKIKQ
zn18_1      58 YLLPVQRAPVLSFHADSEGGEKE.VTEDSNWGYDKKGVLTGTTLKAGDNLKIKQ
zn11_ass    58 YLLPVQRAPVLSFHADSEGGEKE.VTEDSNWGYDKKGVLTGTTLKAGDNLKIKQ
zn02_1      58 YLLPVQRAVVLSFRSDKEGGEKE.GTEDSNWAYDEKRVLKGATLTKAGDNLKIKQ
zn04_1      58 YLLPVQRAVVLSFRSDKEGGEKE.GTEDSNWAYDEKRVLKGATLTKAGDNLKIKQ
zn16_1      58 YLLPVQRAVVLSFRSDKEGGEKE.GTEDSNWAYDEKRVLKGATLTKAGDNLKIKQ
zn14_1      59 ELEPVVRALVLFQMIDKEGNGEISTG.DIGWSYDDHNTLHATTLKAGDNLKIKQ
z2491      60 .LESVQR..VVGSIQASMEGGELETISLSMTND...SKEFVDPYIVTLKAGDNLKIKQ
zn10_1      60 .LESVQR..VVGSIQASMEGGELETISLSMTND...SKEFVDPYIVTLKAGDNLKIKQ
zn22_1      60 .LESVQR..VVGSIQASMEGGELETISLSMTND...SKEFVDPYIVTLKAGDNLKIKQ
zn23_1      60 .LESVQR..VVGSIQASMEGGELETISLSMTND...SKEFVDPYIVTLKAGDNLKIKQ
zn28_ass    60 .LESVQR..VVGSIQASMEGGELETISLSMTND...SKEFVDPYIVTLKAGDNLKIKQ
zn24_1      60 .LESVVRALVLFQMIDKEGNGEISTG.DIGWSYDDHNTLHATTLKAGDNLKIKQ
zn25_ass    60 .LESVVRALVLFQMIDKEGNGEISTG.DIGWSYDDHNTLHATTLKAGDNLKIKQ
zn08_1      60 .LEPVVRALVLFQMIDKEGNGEISTG.DIGWSYDDHNTLHATTLKAGDNLKIKQ
zn29_ass    60 .LEPVVRAPVLSFHSDKEGGEKEEVGASSNLTYDKNRVLKGTTLKAGDNLKIKQ

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zn07_1      121 .....NFTYSLKKDLTDLTSVGTEKLSFSANGNKVNITSDTKGLNFAKETAG
zn20_1      121 .....NFTYSLKKDLTDLTSVGTEKLSFSANGNKVNITSDTKGLNFAKETAG
zn21_1      121 .....NFTYSLKKDLTDLTSVGTEKLSFSANGNKVNITSDTKGLNFAKETAG
zn06_1      121 .....NFTYSLKKDLTDLTSVGTEKLSFSANGNKVNITSDTKGLNFAKETAG
zn19_1      121 .....NFTYSLKKDLTDLTSVGTEKLSFSANGNKVNITSDTKGLNFAKETAG
zn03_1      117 ....NTDENTNSFTYSLKKDLTDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
zn18_1      117 ....NTDENTNSFTYSLKKDLTDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
zn11_ass    117 ....NTDENTNSFTYSLKKDLTDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
zn02_1      117 ....NTNENTNDSFTYSLKKDLTDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
zn04_1      117 ....NTNENTNDSFTYSLKKDLTDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
zn16_1      117 NTNENTNENTNDSFTYSLKKDLTDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
zn14_1      118 NTNKNTNENTNDSFTYSLKKDLTDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
z2491      115 ....NTNENTNSFTYSLKKDLTGLINVETEKLSFGANGKKNVNIISDTKGLNFAKETAG
zn10_1      115 ....NTNENTNSFTYSLKKDLTGLINVETEKLSFGANGKKNVNIISDTKGLNFAKETAG
zn22_1      115 ....NTNENTNSFTYSLKKDLTGLINVETEKLSFGANGKKNVNIISDTKGLNFAKETAG
zn23_1      115 ....NTNENTNSFTYSLKKDLTGLINVETEKLSFGANGKKNVNIISDTKGLNFAKETAG
zn28_ass    115 ....NTNENTNSFTYSLKKDLTGLINVETEKLSFGANGKKNVNIISDTKGLNFAKETAG
zn24_1      118 .....SKDFTYSLKKLKDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
zn25_ass    118 .....SKDFTYSLKKLKDLTSVETEKLSFGANGKKNVITSDTKGLNFAKETAG
zn08_1      118 ....NTDENTNSFTYSLKKDLTDLTSVGTELSFGANGKKNVITSDTKGLNFAKETAG
zn29_ass    119 NTNENTNENTNSFTYSLKKDLTGLINVETEKLSFGANGKKNVNIISDTKGLNFAKETAG

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FIG. 8A

zn07_1	171	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn20_1	171	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn21_1	171	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn06_1	171	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn19_1	171	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn03_1	173	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn18_1	173	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn11_ass	173	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn02_1	173	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn04_1	173	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn16_1	177	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn14_1	178	TNGD	TTVHL	NGIG	STLTD	TLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
z2491	171	TNGD	TTVHL	NGIG	STLTD	TLA	SA	HVDAGN	ST	..HYT	RAAS	KDVL	NAGW	NIKG	VKT	
zn10_1	171	TNGD	TTVHL	NGIG	STLTD	TLA	SA	HVDAGN	ST	..HYT	RAAS	KDVL	NAGW	NIKG	VKT	
zn22_1	171	TNGD	TTVHL	NGIG	STLTD	TLA	SA	HVDAGN	ST	..HYT	RAAS	KDVL	NAGW	NIKG	VKT	
zn23_1	171	TNGD	TTVHL	NGIG	STLTD	TLA	SA	HVDAGN	ST	..HYT	RAAS	KDVL	NAGW	NIKG	VKT	
zn28_ass	171	TNGD	TTVHL	NGIG	STLTD	MLLN	GA	TNVT	ND	VT	DEKK	RAAS	KDVL	NAGW	NIKG	VKP
zn24_1	168	TNGD	TTVHL	NGIG	STLTD	TLA	SA	HVDAGN	ST	..HYT	RAAS	KDVL	NAGW	NIKG	VKT	
zn25_ass	168	TNGD	TTVHL	NGIG	STLTD	TLA	SA	HVDAGN	ST	..HYT	RAAS	KDVL	NAGW	NIKG	VKT	
zn08_1	174	TNGD	TTVHL	NGIG	STLTD	TLA	SA	HVDAGN	ST	..HYT	RAAS	KDVL	NAGW	NIKG	VKT	
zn29_ass	179	TNGD	TTVHL	NGIG	STLTD	TLA	SA	HVDAGN	ST	..HYT	RAAS	KDVL	NAGW	NIKG	VKT	

zn07_1	231	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn20_1	231	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn21_1	231	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn06_1	231	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn19_1	231	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn03_1	233	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn18_1	233	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn11_ass	233	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn02_1	233	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn04_1	233	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn16_1	237	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn14_1	238	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
z2491	229	G	TTGQ	S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn10_1	229	G	TTGQ	S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn22_1	229	G	TTGQ	S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn23_1	229	G	TTGQ	S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn28_ass	231	G	TA	..S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn24_1	226	G	TTGQ	S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn25_ass	226	G	TTGQ	S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn08_1	232	G	TTGQ	S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL
zn29_ass	237	G	TTGQ	S	NVDF	VRTY	D	VEFL	SADT	KTTT	VNVES	KDNGK	TEVK	IGAK	TSVI	KEKD	GKGL

zn07_1	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn20_1	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn21_1	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn06_1	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn19_1	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn03_1	291	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn18_1	291	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn11_ass	291	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn02_1	291	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn04_1	291	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn16_1	295	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn14_1	296	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
z2491	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn10_1	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn22_1	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn23_1	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn28_ass	289	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn24_1	286	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn25_ass	286	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn08_1	292	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV
zn29_ass	297	VTGK	D	KGENG	S	STDE	GEGL	VTAKE	VIDAV	NKAG	WRMKT	TTTANG	QTGQ	ADKF	FETV	TSGT	NV

FIG. 8B

zn07_1	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn20_1	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn21_1	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn06_1	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn19_1	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn03_1	351	TFASGNGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn18_1	351	TFASGNGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn11_ass	351	TFASGNGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn02_1	351	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn04_1	351	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn16_1	355	TFASGNGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn14_1	356	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
z2491	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn10_1	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn22_1	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn23_1	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn28_ass	349	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn24_1	346	TFASGNGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn25_ass	346	TFASGNGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn08_1	352	TFASGKGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN
zn29_ass	357	TFASGNGTTATVSKDDQGNITVMYDVNVGDALNVNQLQNSGWNLDKAVAGSSGKVISGN

zn07_1	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn20_1	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn21_1	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn06_1	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn19_1	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn03_1	411	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn18_1	411	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn11_ass	411	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn02_1	411	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn04_1	411	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn16_1	415	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn14_1	416	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
z2491	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn10_1	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn22_1	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn23_1	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn28_ass	409	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn24_1	406	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn25_ass	406	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn08_1	412	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA
zn29_ass	417	VSPSKGKMDETVNINAGNNIEITRNGKNIDIATSMTPQFSSVSLGAGADAPTLSVDGGA

zn07_1	468	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn20_1	468	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn21_1	468	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn06_1	468	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn19_1	468	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn03_1	471	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn18_1	471	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn11_ass	471	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn02_1	471	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn04_1	471	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn16_1	475	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn14_1	476	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
z2491	469	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn10_1	469	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn22_1	469	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn23_1	469	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn28_ass	469	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn24_1	466	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn25_ass	466	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn08_1	472	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT
zn29_ass	477	LNVGSKDKNKPVRITNVAPGVKEGDVTNVAQLKGVAQNLNNRIDNVDGNARAGIAQAIAT

FIG. 8C

zn07_1	528	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn20_1	528	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn21_1	528	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn06_1	528	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn19_1	528	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn03_1	531	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn18_1	531	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn11_ass	531	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn02_1	531	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn04_1	531	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn16_1	535	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn14_1	536	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
z2491	529	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn10_1	529	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn22_1	529	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn23_1	529	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn28_ass	529	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn24_1	526	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn25_ass	526	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn08_1	532	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV
zn29_ass	537	AGLVQAYLPGKSMMMAIGGGTYRGEAGYAIGYSSISDGGNWIIKGTASGNSRGHFGASASV

zn07_1	588	GYQW*
zn20_1	588	GYQW*
zn21_1	588	GYQW*
zn06_1	588	GYQW*
zn19_1	588	GYQW*
zn03_1	591	GYQW*
zn18_1	591	GYQW*
zn11_ass	591	GYQW*
zn02_1	591	GYQW*
zn04_1	591	GYQW*
zn16_1	595	GYQW*
zn14_1	596	GYQW*
z2491	589	GYQW*
zn10_1	589	GYQW*
zn22_1	589	GYQW*
zn23_1	589	GYQW*
zn28_ass	589	GYQW*
zn24_1	586	GYQW*
zn25_ass	586	GYQW*
zn08_1	592	GYQW*
zn29_ass	597	GYQW*

FIG. 8D